

## Commutation of projections and trace characterization on von Neumann algebras. II

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### Abstract

We obtain new necessary and sufficient commutation conditions for projections in terms of operator inequalities. These inequalities are applied for trace characterization on von Neumann algebras for the class of all positive normal functionals. © 2011 Pleiades Publishing, Ltd.

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### Keywords

commutation of operators, Hilbert space, linear bounded operator, normal functional, operator inequality, projection, trace, von Neumann algebra